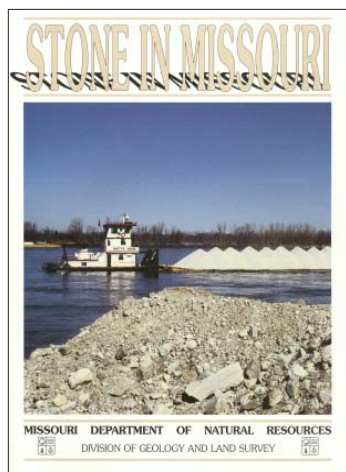
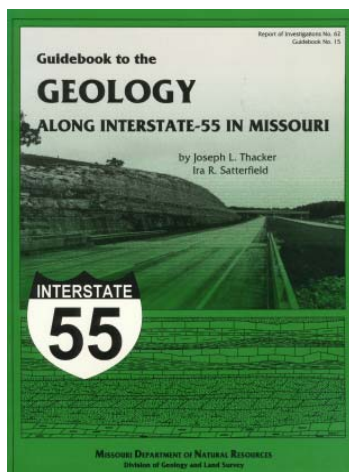
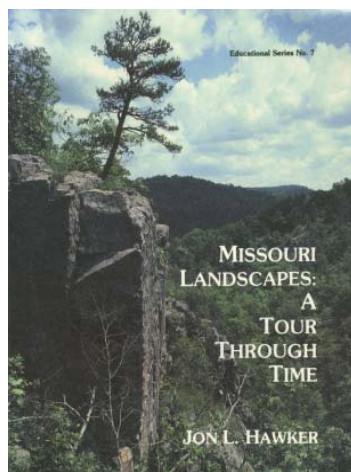
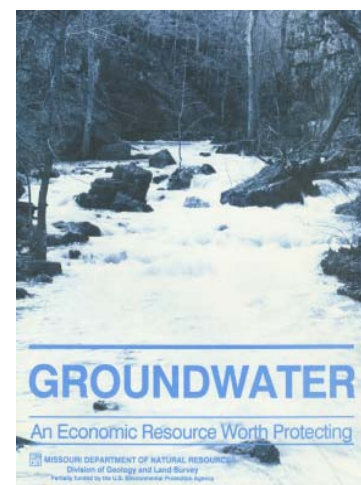
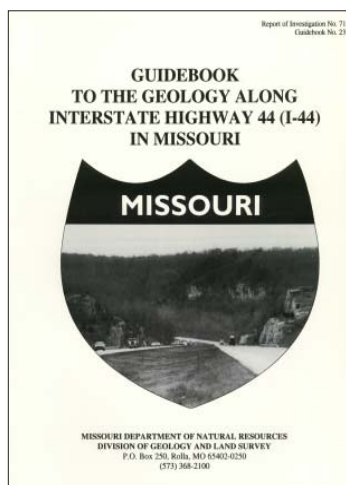
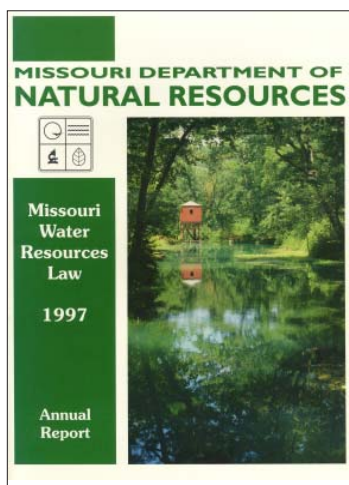
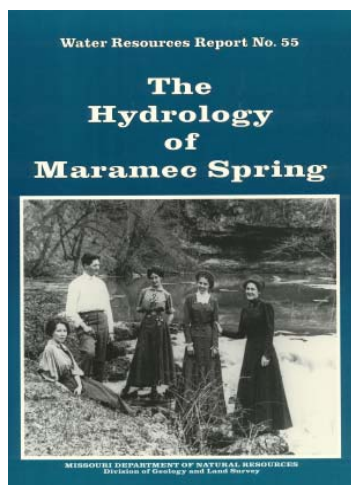
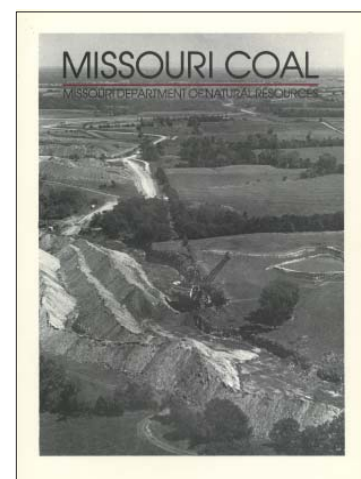
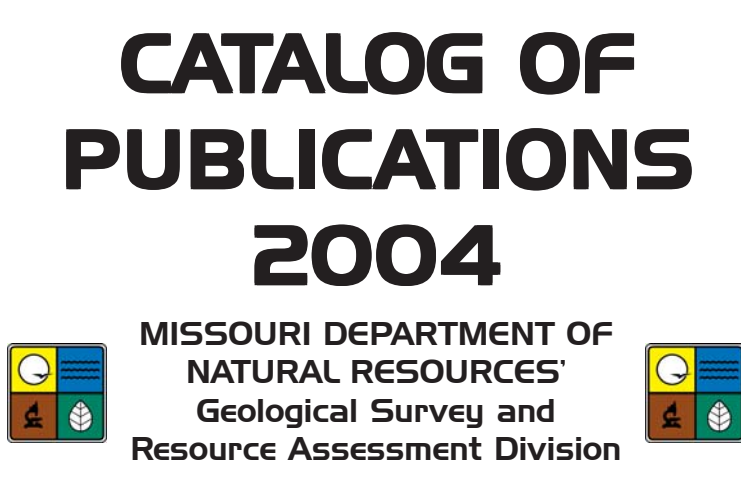
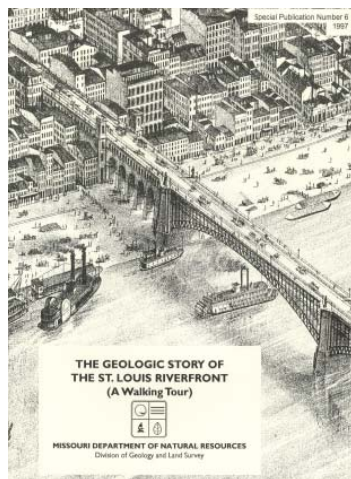
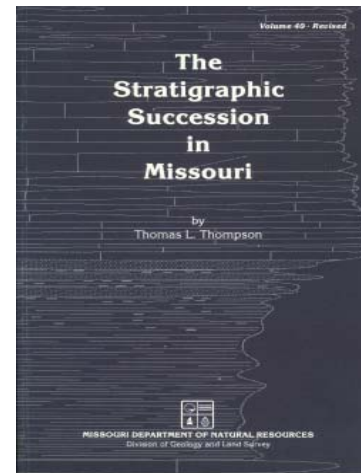
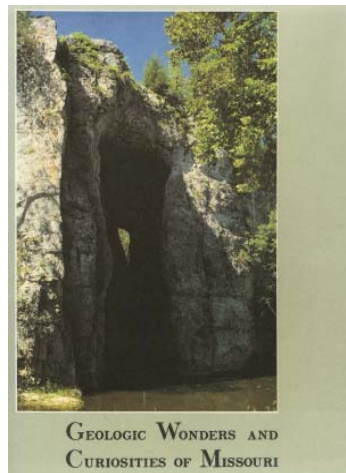
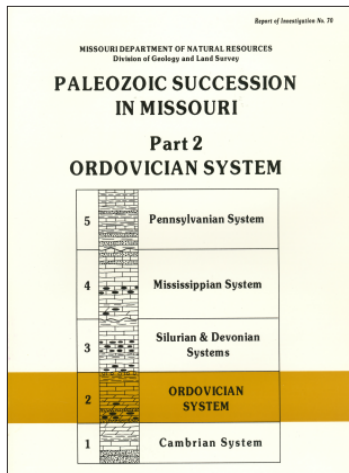
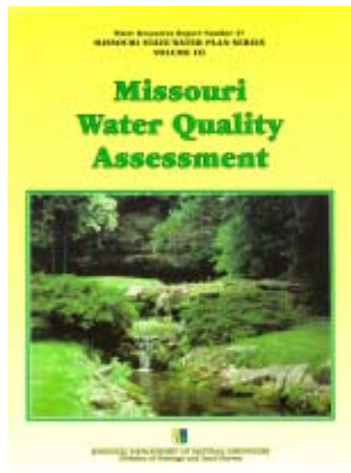




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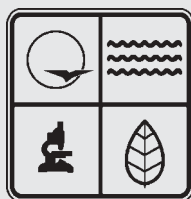
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CONTENTS

REPORTS OF INVESTIGATIONS.....	1
INFORMATION CIRCULARS.....	4
ENGINEERING GEOLOGY SERIES	5
WATER RESOURCES REPORTS.....	6
SPECIAL PUBLICATIONS	9
MISCELLANEOUS PUBLICATIONS	10
EDUCATIONAL SERIES.....	11
TRADING CARDS.....	11
GUIDEBOOKS	11
CONTRIBUTIONS TO PRECAMBRIAN GEOLOGY	12
BIENNIAL REPORTS	13
VOLUMES (2nd Series).....	14
RELATED PUBLICATIONS.....	15
MISSOURI DEPARTMENT OF CONSERVATION PRODUCTS	16
DAM SAFETY PRODUCTS	17
LAND SURVEY PUBLICATIONS	17
MAPS	19
BROCHURES AND GENERAL INFORMATION	29
OPEN-FILE REPORTS	30
OPEN-FILE MAPS.....	35
GEOLOGIC MAPS	57
COAL.....	60

NOTE:
Prices subject to change without notice.

REPORTS OF INVESTIGATIONS

- RI-2. The Mineral Deposits of Morgan County, Missouri**, by William B. Mather, 207 p., 6 pls., 2 figs., 1946. **Price \$13.00.** *Outlines geography, stratigraphy, structure, and economic geology and includes types and ages of mineral deposits with description of mining properties*
- RI-6. Zones of Plattin-Joachim of Eastern Missouri**, by John G. Grohskopf, 15 p., 5 figs., 1 tbl., 1948. **Price \$4.00.** *Defines several zones in Plattin-Joachim formations on basis of insoluble residues. Reprinted from American Association of Petroleum Geologists Bulletin, vol. 32, no. 3, p. 351-365, March 1948.*
- RI-7. Pre-Upper Cambrian Sediments of Vernon County, Missouri**, by Margaret W. Skillman, 18 p., 2 pls., 1948. **Price \$4.00.** *Describes unusual sequence of sediments (for Missouri) present in two deep oil and gas tests.*
- RI-9. Upper Marmaton Strata in Western and Northern Missouri**, by Wallace B. Howe, 29 p., 3 pls., 1953. **Price \$5.00.** *Describes Nowata, Lenapah, and Holdenville Formations of western and northern Missouri.*
- RI-10. Insoluble Residues of Some Paleozoic Formations of Missouri, their Preparation, Characteristics, and Applications**, by John G. Grohskopf and Earl McCracken, 39 p., 11 pls., 1949. **Price \$5.00** *Discusses use of insoluble residues in correlation of sparingly fossiliferous limestone and dolomite strata.*
- RI-11. Revision of the Classification of the Post-Cherokee Pennsylvanian Beds of Missouri**, by Frank C. Greene and Walter V. Searight, 32 p., 4 figs., 1949. **Price \$4.00.** *Presents classification of post-Cherokee Pennsylvanian and traces development of nomenclature and classification of Pennsylvanian of Missouri.*
- RI-12. A Stratigraphic Study of the Upper Marmaton and Lowermost Pleasanton Groups, Pennsylvanian, of Missouri**, by L.M. Cline and Frank C. Greene, 74 p., 1 fig., 7 correlation charts, 1950. **Price \$7.00.** *Summarizes results of stratigraphic and faunal studies from west-central Missouri to south-central Iowa with detailed studies of selected outcrops from Bates County, Missouri to Appanoose County, Iowa.*
- RI-14. Coal in Northeastern Carroll County and Southeastern Livingston County, Missouri**, by Wallace B. Howe and Walter V. Searight, 8 p., 1 pl., 1953. **Price \$4.00.** *Describes distribution, persistence, thickness, and quality of Croweburg and Bevier coal beds in Pennsylvanian strata of northeastern Carroll and southeastern Livingston counties.*
- RI-15. The Geology of the Humansville Quadrangle, Missouri**, by Thomas K. Searight, 50 p., 3 pls., including geologic and topographic map, 1954. **Price \$7.00.**
- RI-18. The Geology of the Lebanon Quadrangle, Missouri**, by Thomas K. Searight, 33 p., 3 pls., including geologic map, 2 tpls., 1955. **Price \$7.00.**
- RI-19. The Geology of the Fulton Quadrangle, Missouri**, by A.G. Unklesbay, folio sheet, including geologic map, 1955. **Price \$5.00.**
- RI-21. Northeast Missouri's Oil Possibilities Improve**, by Earl McCracken, 2 p., 3 figs., 1956. **Price \$4.00.** *Discusses development of Florissant oil field and oil and gas possibilities of northeast Missouri. Reprinted from Oil and Gas Journal, vol. 53, no. 35, p. 154-155, January 1955.*
- RI-22. Geology of the Bowling Green Quadrangle**, by Troy J. Laswell, 64 p., 1 pl., including geologic map, 4 figs., 1957. **Price \$7.00.**
- RI-23. Study of Missouri Shales for Lightweight Aggregate**, by P.G. Herold, P. Kurtz, Jr., T.J. Planje, and J.D. Plunkett, 39 p., 11 figs., 5 tpls., 1958. **Price \$4.00.** *Discusses bloating characteristics of 55 samples of shales, clay, and loesses and gives data on relationship of bloating mechanism and chemical composition.*
- RI-24. Resistivity Surveys of Missouri Limonite Deposits**, by Tsvi Meidav, William C. Hayes, and George E. Heim, 27 p., 16 figs., 4 tpls., 1958. **Price \$4.00.** *Discusses effectiveness of electrical resistivity as method of exploration for brown iron deposits.*
- RI-28. Desmoinesian Fusulinids of Missouri**, by Don G. Bebout, 79 p., 8 pls., 8 figs., 17 tpls., 1963. **Price \$7.00.** *Provides stratigraphic and paleontologic summary of Desmoinesian strata based on studies of fusulinids.*
- RI-29. Mineral Commodities of Putnam County**, by Richard J. Gentile, 48 p. 2 pls., 8 figs., 5 tpls. 1965. **Price \$5.00.** *Discusses coal and groundwater along with limestone, conglomerate, sand, gravel, oil, gas, shale, clay, gypsum, and glacial drift.*
- RI-31. Guidebook, Field Trip, 1965 Annual Meeting, Geological Society of America, Geology of the Kansas City Group at Kansas City**, by Eldon J. Parizek and Richard J. Gentile, 62 p., illus., 1965. **Price \$8.00.** *Road log covers an area of Kansas City metropolitan area, with discussion of stratigraphy of various units of Kansas City Group (Pennsylvanian).*

- RI-32. A New Pennsylvanian Dibunophyllid Coral from Missouri**, by George H. Fraunfelter, 8 p., 1 fig., 1965. **Price \$4.00.** *Describes Dibunophyllum missouriensis from Higginsville Formation, Desmoinesian, of central Missouri.*
- RI-33. Midcontinent Pennsylvanian Edestidae**, by John W. Koenig, 25 p., 3 figs. 1 tbl., 1965. **Price \$4.00.** *Reviews all recorded edestid occurrences in Midcontinent area.*
- RI-35. The Grundel Mastodon**, by M.G. Mehl, J.A. Martin, J.H. Williams, and R.A. Marshall, 28 p., 8 figs., 1966. **Price \$4.00.** *Describes discovery and excavation of skeletal remains of American mastodon, Mammut americanus, from gravel pit in Holt County, Missouri. Contemporaneous human activity is postulated on basis of skeletal positioning and green bone fracture of one tusk.*
- RI-36. Clay Mineralogy and Ceramic Properties of Lower Cabaniss Underclays in Western Missouri**, by A.C. Tennissen, 56 p., 21 figs., 11 tpls., 1967. **Price \$7.00.** *Describes mineral and chemical components, petrography, and ceramic properties of Weir-Pittsburg, Tebo, and Mineral underclays in Barton, Vernon, St. Clair, and Henry Counties.*
- RI-38. The Elsey Formation and Its Relationship to the Grand Falls Chert**, by Charles E. Robertson, 62 p., 13 figs., 1967. **Price \$7.00.** *Clarifies relationship between Grand Falls Chert of Joplin district, Reeds Spring Formation, and Grand Falls Formation in southwestern Missouri (Clark and Beveridge, 1952).*
- RI-39. Conodont Zonation of Lower Osagean Rocks (Lower Mississippian) of Southwestern Missouri**, by Thomas L. Thompson, 88 p. 6 pls., 6 figs., 6 tpls., 1967. **Price \$8.00.** *Utilizes conodonts to establish biostratigraphic zones. Units studied were Pierson, Reeds Spring, and Elsey Formations, and Burlington Limestone.*
- RI-40. Mineral Commodities of Macon and Randolph Counties**, by Richard J. Gentile, 106 p., 3 pls., 16 figs., 7 tpls., 1967. **Price \$9.00.** *Discusses coal, limestone, sand, clay, shale, conglomerate, and groundwater resources.*
- RI-41. Planar Stromatolite and Burrowed Carbonate Mud Facies in Cambrian Strata of the St. Francois Mountain Area**, by W.B. Howe, 113 p., 1 plate, 1968. **Price \$8.00.** *Discusses stromatolitic and burrowed carbonate mud types, one of the distinctive carbonate facies in Upper Cambrian strata of the St. Francois Mountains area in southeastern Missouri.*
- RI-42. The Ferrelview Formation (Pleistocene) of Missouri**, by W.B. Howe and G.E. Heim, Jr., 32 p., 3 figs., 7 tpls., 1968. **Price \$4.00.** *Discusses stratigraphy of Pleistocene deposits, particularly thick, light gray clayey silt in Platte, Clay, Clinton, and Caldwell counties.*
- RI-43. Lapilli Tuffs and Associated Pyroclastic Sediments in Upper Cambrian Strata Along Dent Branch, Washington County, Missouri**, by Richard E. Wagner and Eva B. Kisvarsanyi, 86 p., 2 pls., 27 figs., 1969. **Price \$8.00.** *Discusses late Cambrian exposures along northwest flank of St. Francois Mountains. Origin and composition of lapilli tuffs described.*
- RI-45. Stratigraphy and Conodont Biostratigraphy of Kinderhookian and Osagean (Lower Mississippian) Rocks of Southwestern Missouri and Adjacent Areas**, by Thomas L. Thompson and L.D. Fellows, 10 pls., 33 figs, 1 tbl., 1969 (released 1970) **Available on CD only. Price \$26.00.** *Describes stratigraphy of southwestern Missouri based on writings covering nearly 75 years, studies of some 26,250 conodonts recovered from 42 stratigraphic sections, and other data from more than 150 sources.*
- RI-48. Evaluation of Missouri's Coal Resources**, by Charles E. Robertson, 100 p., 9 pls., 5 figs., 1 tbl., 4 app., 1971. **Price \$18.00.** *Contains a large map of each of the state's nine major coal seams.*
- RI-50. Conodont Biostratigraphy of Chesterian Strata in Southwestern Missouri**, by Thomas L. Thompson, 57 p., 1 pl., 5 figs., 10 tpls., 1972. **Price \$7.00.** *Hindsville Limestone and Batesville, Fayetteville, and Carterville Formations of southwestern Missouri correlated by conodonts with formations of type Chesterian Series in southern Illinois, and with Chesterian strata in Texas, Arkansas, and Oklahoma.*
- RI-52. Correlation of Cambrian Strata of the Ozark and Upper Mississippi Valley Regions**, by Wallace B. Howe, Vincent E. Kurtz, and Kenneth H. Anderson, 60 p., 1 pl., 4 figs., 1 tbl., 1972. **Price \$7.00.** *Correlates Cambrian section of Ozark region with Upper Mississippi Valley region. Map shows traverse of Upper Cambrian strata from Washington County, Missouri to Henry County, Illinois.*
- RI-53. Barite Ore Potential of Four Tailings Ponds, Washington County Barite District, Missouri**, by Heyward M. Wharton, 58 p., 5 pls., 9 figs., 14 tpls., 6 app., 1972. **Price \$9.00.** *Amounts and size-grade distribution of barite itemized with assay maps of tailings ponds.*
- RI-54. Mineable Coal Reserves of Missouri**, by Charles E. Robertson, 71 p., 20 figs., 18 tpls., 1973 (reprinted 1984). **Price \$7.00.**
- RI-58. Guidebook to the Geology and Ore Deposits of Selected Mines in the Viburnum Trend, Missouri**, by Heyward M. Wharton et al., 60 p., 26 figs., 6 tpls., 1975. **Price \$10.00.** *Viburnum Trend ore deposits in southeastern Missouri contain largest reserves of lead and zinc*

known in U.S. today, also minor but significant amounts of copper, silver and cadmium. Highly competitive exploration and development resulted in little detailed geologic information published. Symposium was held to present comprehensive review of new subdistrict. Guidebook was prepared for four mine tours offered with symposium papers.

RI-59. The Geology of Bates County, Missouri, by Richard J. Gentile, 94 p., 19 figs., 4 tbs., 1 app., 1 pl., including geologic map, 1976. **Price \$14.00.** Discusses physical properties, thickness, and extent of rock units and evaluates mineral resources.

RI-61. Studies in Precambrian Geology with a Guide to Selected Parts of the St. Francois Mountains, Missouri (Contribution to Precambrian Geology No. 6), edited by Eva B. Kisvarsanyi, 200 p., 75 figs., 5 pls., 8 tbs., 1976. **Price \$14.00.** Emphasizes results of recent investigations of Missouri's ancient igneous rocks. Road logs provide information and directions to previously unknown or inaccessible Precambrian outcrops in the region. Prepared for 23rd annual meeting of Association of Missouri Geologists.

RI-62. Guidebook to the Geology Along Interstate-55 in Missouri, by Joseph L. Thacker and Ira R. Satterfield, 128 p., 57 figs, Revised Edition 1997. **Price \$18.00.** This guidebook has numerous illustrations and is designed for use by the nongeologist as well as the professional geologist. The highway cuts across a rock formation that is a source of silica sand, several high quality limestone formations, a couple of faults with considerable displacement, unusual solution features, and one rock unit that is not well known and is not well exposed in adjacent areas. Brief accounts of historic areas along I-55 are included also.

RI-63. Chemical Composition of Missouri Coals, by W. Keith Wedge and Joseph R. Hatch, 102 p., 10 figs., 16 tbs., 1980 (reprinted 1984). **Price \$12.00.** Reports chemical composition of 113 samples of Missouri coal from mines and drill cores in Pennsylvanian Cherokee and Marmaton Groups. Results reported include major-, minor- and trace-element composition; proximate and ultimate analyses; and heat-of-combustion, air-dried-loss, forms-of-sulfur, free-swell-index, and ash-fusion temperature determinations.

RI-64. Geology of the Precambrian St. Francois Terrane, Southeastern Missouri, (Contribution to Precambrian Geology No. 8), by Eva B. Kisvarsanyi, 58 p., 9 figs., 10 tbs., 1:250,000-scale map, 1981. **Price \$20.00.** Describes principal rock types of St. Francois terrane identified from drillholes: distribution, petrography, geochemistry, and geologic and structural relationships.

RI-65. Underground Space Resources in Missouri, by John W. Whitfield, 65 p., 65 figs., 7 tbs., 1981. **Price \$10.00.** Reviews underground space resources in Missouri with photographs before and after development.

RI-66. Coal Resources and Reserves of Missouri, by Charles E. Robertson and David C. Smith, 49 p., 3 figs., 7 tbs., 1981. **Price \$8.00.** Detailed estimate of Missouri's coal resources as of July 31, 1976. Tables give average proximate analyses; original and remaining coal resources; remaining identified recoverable coal reserves, recoverable coal resources by county, coal bed, and coal bed thickness; and remaining identified strippable coal resources by county, coal bed, and coal bed and overburden thicknesses.

RI-67. Guidebook to the Geology and Ore Deposits of the St. Francois Mountains, Missouri, (Contribution to Precambrian Geology No. 9), by Eva B. Kisvarsanyi, Arthur W. Hebrank, and Richard F. Ryan, 119 p., 75 figs., 8 tbs., 1981. **Price \$14.00.** Routes in guidebook feature principal granite types, diverse volcanic rocks, and one of several of the iron ore deposits in Missouri. Prepared for field trip held with 1981 Annual Meeting of the Geological Society of America.

RI-68. Geology of Potential Coal Stripping Areas: Prairie Hill Area, Missouri, by David M. Work, Scott Sumner, and Charles Robertson, 57 p., 3 pl., 1982. **Price \$14.00.** Presents data on state's most active coal-stripping areas. Concentrates on geologic and environmental geologic maps of area; accompanied by cross-sections.

RI-69. Geology of the Belton Quadrangle, by Richard J. Gentile, 110 p., 3 pl., 1984. **Price \$18.00.** Describes the Belton Ring-Fault Complex a circular, intensely folded and faulted structure about 3 miles in diameter about 20 miles south of Kansas City, Missouri. Soil and bedrock characteristics, land use, and mineral resources including oil and gas, water, stone, and coal are also evaluated.

RI-70. Paleozoic Succession in Missouri: Part 2, Ordovician System, by Thomas L. Thompson, 282 p., 163 fig., 1991. **Price \$20.00; Part 3, Silurian and Devonian Systems**, by Thomas L. Thompson, 228 p., 145 fig., 1993. **Price \$20.00; Part 4, Mississippian System**, by Thomas L. Thompson, 189 p., 110 figs., 1986. **Price \$20.00.** Since 1961 (Vol. 40), many new concepts have developed concerning stratigraphic succession in Missouri, and new formations have been proposed. In 1965, the Missouri Geological Survey established a list of formal names of rock units in Missouri to serve as a standard for uniform stratigraphic nomenclature. This report includes information on original authors, descriptions, and type sections of named rock units in Missouri, and useful historical information on abandoned names. Reference sections of rocks units are illustrated and described. Serves as reference and field guide to Paleozoic formations of Missouri. Two additional parts will be published subsequently.

RI-71. Guidebook to the Geology Along Interstate 44 (I-44) in Missouri, (Guidebook 23), by Thomas L. Thompson and Charles E. Robertson, 1993. **Price \$14.00.** Roadlog and description of geology and other points of interest within the 290 mile long I-44 corridor from Joplin to St. Louis.

RI-72. A Geologic Cross Section of the Missouri River Valley at Kansas City, Missouri, by Richard J. Gentile, Richard L. Moberly, and Sharon K. Barnes, 1994, 76 p., 10 figs., 3 tpls., 2 app., 1 plate. **Price \$36.00.**

RI-73. Lexicon of Stratigraphic Nomenclature in Missouri, by Thomas L. Thompson, 2001. Available on CD only. **Price \$26.00.** *This publication is also*

available FREE at the Department of Natural Resources' Geological Survey and Resource Assessment Division's homepage under Publications.

RI-74. 38th Forum on the Geology of Industrial Minerals, St. Louis, Missouri, April 28-May 3, 2002, edited by Cheryl M. Seeger, 2004, 310 p. **Price \$35.00.**

INFORMATION CIRCULARS

IC-1. Dedication of the Buehler Building, 27 p., 1946. **Price \$4.00.** *Provides Information about building housing Missouri Geological Survey in Rolla and relation of industry to State Geological Survey.*

IC-2. Ground Water in Agriculture. I. Ground Water in Missouri, by K.E. Anderson and J.G. Grohskopf, 5 p., 7 tpls., 1946. **Price \$6.00.** *Reprinted from Agricultural Engineering, vol. 27, no. 10, p. 465-468 and 470, October 1946.*

IC-3. Coal Production, Distribution, and Consumption in Missouri, by Walter V. Searight, 52 p., 12 figs., 2 tpls., 1949. **Price \$5.00.** *Describes nature of coal; relation to civilization and Missouri's economy; occurrence, distribution, and characteristics; and mining, preparation, production, and consumption.*

IC-4. The Mineral Industry of Missouri in 1946 and 1947 with Total Production Summarized, by O.M. Bishop, 93 p., 6 figs., 35 tpls., 1949. **Price \$5.00.**

IC-5. Notes on Uranium, by Garrett A Muilenburg, 22 p., 1949 (revised 1957). **Price \$4.00.** *Discusses uranium-bearing minerals, mode of occurrence, tests for uranium minerals, mining laws, and ore-buying stations and prices.*

IC-6. The Mineral Industry of Missouri in 1948, by O.M. Bishop, 21 p., 1 tbl., 1950. **Price \$4.00.**

IC-7. The Mineral Industry of Missouri in 1949, by O.M. Bishop, 24 p., 2 tpls., 1951. **Price \$4.00.**

IC-9. The Mineral Industry of Missouri in 1950, by Garrett A Muilenburg, 20 p., 1 tbl., 1933. **Price \$4.00.**

IC-10. The Mineral Industry of Missouri in 1951, by Eugene S. Smith, 19 p., 1 tbl., 1954. **Price \$4.00.**

IC-11. The Mineral Industry of Missouri in 1952, by Eugene S. Smith, 19 p., 1 tbl., 1955. **Price \$4.00.**

IC-12. The Mineral Industry of Missouri in 1953, by Kenneth G. Larsen, 18 p., 3 figs., 1 tbl., 1955. **Price \$4.00.**

IC-13. Asphaltic Rocks in Western Missouri, by Walter V. Seanght, 26 p., 1 pl., 1957. **Price \$4.00.** *Discusses bituminous Mississippian and Pennsylvanian limestones and sandstones as well as uses and values. Location map included.*

IC-14. Exploration and Development of the Sedimentary Iron Ores of Missouri, by William C. Hayes, 33 p., 3 figs., 8 tpls., 1957. **Price \$4.00.** *Describes history, production, distribution, and mineralogy of the sedimentary iron ores; prospecting and development of deposits; and extraction and treatment of the ore.*

IC-15. Topographic Maps of Missouri, by Thomas R. Beveridge, Frank L. Whaley, and Lawrence E. Lambelet, 27 p., 10 figs., 2 tpls., 1957. **Price \$4.00.** *Discusses uses of topographic maps, map reading, production of maps, and map accuracy.*

IC-16. Bibliography of the Geology of Missouri, 1955-60, by John W. Koenig, 104 p., 1961. **Price \$8.00.**

IC-17. Northwest Missouri Oil and Gas Logs (1945-1963), compiled by Jack Wells and Earl McCracken, 51 p., 1 pl., 1 fig., 1964. **Price \$4.00.** *Provides catalog of well logs based on exploratory oil and gas drilling activity in northwestern Missouri.*

IC-25. Bibliography of the geology of Missouri, 1969, by Jerry d. Vineyard, 44 p., 1970. **Price \$6.00.** *Lists published and unpublished papers concerning the geology of Missouri that were issued in 1969. Papers appearing before 1969 that were not included in previous bibliographies are also listed.*

IC-27. A Preliminary Evaluation of Shale-Oil Resources in Missouri, by Laurence M. Nuelle and H. Scott Sumner, 28 p., 1 pl., 1981. **Price \$10.00.** *Preliminary overview of Missouri oil-shale potential. Extensive review of adjoining states data pertaining to Missouri units.*

IC-29. Index to Missouri Areal Geologic Maps, 1890-1984, compiled by Arthur W. Hebrank and Barbara R. Miller, 103 p., 1984. **Price \$12.00.** *Lists published and unpublished geologic, reconnaissance, and outcrop maps on file at Missouri Division of Geology and Land Survey.*

IC-30. Major Water Use in Missouri: 1986, by Jeanette A. Barnett, 14 p., 1989. **Price \$4.00.**

IC-31. Stratigraphic Nomenclature Adopted for Use by the Department of Natural Resources' Geological Survey, Compiled by Geological Survey Stratigraphic Committee, 24 p., 1993. **Price \$8.00.**

ENGINEERING GEOLOGY SERIES

EG-1. Engineering Geology of the Maxville Quadrangle, Jefferson and St. Louis Counties, Missouri, by Edwin E. Lutzen, 8 p., map, 1968. **Price \$7.00.** *Describes engineering characteristics of 11 soil units and subunits and shows distribution on accompanying map.*

EG-2. Engineering Geology of the Creve Coeur Quadrangle, St. Louis County, Missouri, by John D. Rockaway, Jr. and Edwin E. Lutzen, 20 p., map, 1970. **Price \$7.00.** *Describes engineering characteristics of 12 soil and bedrock units and subunits and shows distribution on accompanying map.*

EG-4. Engineering Geology of St. Louis County, Missouri, by Edwin E. Lutzen and John D. Rockaway, Jr., 23 p., 1 pl., 12 figs., 3 tbls., 1971 (reprinted 1987). **Price \$12.00.** *Evaluates geologic factors influencing land use and development. Rock formations and soils with similar engineering properties defined as separate map units. Each is discussed with reference to waste disposal, pollution potential, slope stability, excavation properties, bearing capacity, mineral resources, and special problems.*

EG-5. Groundwater Contamination and Sinkhole Collapse Induced by Leaky Impoundments in Soluble Rock Terrain, by Thomas J. Aley, James H. Williams, and James W. Massello, 30 p., 10 figs., 1 tbl., 1972. **Price \$11.00.** *Twenty case histories of land collapsing because of sewage lagoons, leaky impoundments, or other construction are documented and analyzed from a geologic standpoint. Characteristics of areas subject to catastrophic sinkhole collapse and groundwater contamination are listed.*

EG-6. Geologic Aspects of Hazardous-Waste Isolation in Missouri, by Christopher J. Stohr, Gary St. Ivany, and James H. Williams, 55 p., 5 pl., 1981. **Price \$24.00.** *Engineering geology guide to aid in siting of hazardous-waste isolation facilities. Provides regional geologic information and recommends exploration procedures based on that philosophy.*

EG-7. Geologic Aspects of Individual Home Liquid-Waste Disposal in Missouri, by James W. Duley, 78 p., 4 pl., 1983. **Price \$16.00.** *Discusses areas where limitations for septic-tank soil-absorption placement can be anticipated with respect to groundwater and surface-water contamination. NOTE: The included Surficial Materials Map can be purchased separately for \$6.00.*

WATER RESOURCES REPORTS

- WR-1. Water Possibilities from the Glacial Drift of Grundy County**, by Dale L. Fuller and W.B. Russell, 13 p., 3 pls., 1956. **Price \$1.50.**
- WR-2. Water Possibilities from the Glacial Drift of Mercer County**, by J.R. McMillen and W.B. Russell, 13 p., 4 pls., 1956. **Price \$1.50.**
- WR-3. Water Possibilities from the Glacial Drift of Harrison County**, by Dale L. Fuller, J.R. McMillen, and W.B. Russell, 14 p., 4 pls., 1956. **Price \$2.00.**
- WR-4. Water Possibilities from the Glacial Drift of Putnam County**, by Dale L. Fuller and J.R. McMillen, 11 p., 3 pls., 1956. **Price \$4.00.**
- WR-5. Water Possibilities from the Glacial Drift of Worth County**, by Dale L. Fuller et al., 9 p., 3 pls., 1956. **Price \$4.00.**
- WR-6. Water Possibilities from the Glacial Drift of Livingston County**, by Dale L. Fuller et al., 13 p., 3 pls., 1956. **Price \$4.00.**
- WR-7. Water Possibilities from the Glacial Drift of Gentry County**, by Dale L. Fuller et al., 10 p., 4 pls., 1956. **Price \$1.60.**
- WR-8. Water Possibilities from the Glacial Drift of DeKalb County**, by Dale L. Fuller et al., 12 p., 3 pls., 1957. **Price \$4.00.**
- WR-9. Water Possibilities from the Glacial Drift of Daviess County**, by Dale L. Fuller et al., 13 p., 3 pls., 1957. **Price \$1.50.**
- WR-10. Water Possibilities from the Glacial Drift of Sullivan County**, by Dale L. Fuller et al., 10 p., 3 pls., 1957. **Price \$4.00.**
- WR-11. Water Possibilities from the Glacial Drift of Linn County**, by Dale L. Fuller et al., 13 p., 3 pls., 1957. **Price \$4.00.**
- WR-12. Water Possibilities from the Glacial Drift of Chariton County**, by Dale L. Fuller et al., 14 p., 3 pls., 1957. **Price \$1.90.**
- WR-13. Water Possibilities from the Glacial Drift of Carroll County**, by Dale L. Fuller et al., 18 p., 3 pls., 1957. **Price \$4.00.**
- WR-14. Water Possibilities from the Glacial Drift of Buchanan County**, by Dale L. Fuller, et al., 10 p., 3 pls., 1957. **Price \$1.50.**
- WR-15. Water Possibilities from the Glacial Drift of Andrew County**, by Dale L. Fuller et al., 10 p., 3 pls., 1957. **Price \$2.10.**
- WR-16. Preliminary Report on the Groundwater Resources of Nodaway County, Missouri**, by G.E. Heim, J.A. Martin, and W.B. Howe, 26 p., 2pls., 1959. **Price \$5.30.**
- WR-17. Preliminary Report, Groundwater Resources of Holt County**, by G.E. Heim, J.A. Martin, and W.B. Howe, 21 p., 2 pls., 2 figs., 1960. **Price \$2.70.**
- WR-18. Preliminary Report, Groundwater Resources of Atchison County, Missouri**, by G.E. Heim, J.A. Martin, and W.B. Howe, 26 p., 2 pls., 1959. **Price \$4.70**
- WR-19. Floods of June 17-18, 1964 in Jefferson, Ste. Genevieve, and St. Francois Counties, Missouri**, by M.S. Petersen, 20 p., 9 figs., 2 tbls., 1965. **Price \$4.00.** *Description of area, details of storm, history, and frequency of flooding, and flood discharge and damage.*
- WR-21. Floods of July 18-23, 1965 in Northwestern Missouri**, by James E. Bowie and E. Eugene Gann, 103 p., 4 pls., 16 figs., 4 tbls., 1967. **Price \$10.00.** *Summarizes flood stages and discharges, discusses flood damages, and compares 1965 floods with previous years.*
- WR-22. Storage Requirements to Augment Low Flows of Missouri Streams**, by John Skelton, with section on seepage losses by James H. Williams, 78 p., 1 pl., 6 figs., 1 tbl., 1968. **Price \$10.00.** *Presents storage requirements for selected draft rates at 226 continuous- and partial-record stations.*
- WR-24. Water Resources of the Joplin Area, Missouri**, by G.L. Feder, et al., 98 p., 1 pl., 28 figs., 11 tbls., 1969. **Price \$26.00.** *Contains detailed statistics on surface water and groundwater within a 2,000 square mile area in parts of Newton, Lawrence, Barry, Dade, and Barton counties, and all of Jasper County. Includes information on magnitude and frequency of floods, low-flow frequency, storage requirements to augment low flow, water quality, availability of water, etc.*
- WR-25. Base-Flow Recession Characteristics and Seasonal Low-Flow Frequency Characteristics for Missouri Streams**, by John Skelton, 43 p., 5 figs.,

2 app., 1970. **Price \$6.00.** Includes base flow recession characteristics of 116 continuous- and partial-record stations and seasonal low-flow frequency information on 215 continuous- and partial-record stations.

WR-26. Groundwater Resources of Saline County, Missouri, by John C. Miller, 83 p., 8 figs., 8 tbls., app., 1972. **Price \$6.00.** Describes and outlines nine water-quality areas straddling transition zone between fresh groundwater of Ozarks and saline water of northeastern Missouri.

WR-27. Carryover Storage Requirements for Reservoir Design in Missouri, by John Skelton, 60 p., 1 pl., 9 figs., app., 1971. **Price \$8.00.** Presents data that can be used in preliminary studies of storage structures and comparing development potential of streams.

WR-28. Flood Volume Design Data for Missouri Streams, by John Skelton, 14 p., 1 pl., 2 figs., 4 tbls., app., 1973. **Price \$7.00.** Contains flood-volume-duration data for selected recurrence intervals at 111 continuous-record gaging stations and regional flood-volume equations applicable to ungaged sites.

WR-29. Springs of Missouri, by Jerry D. Vineyard and Gerald L. Feder, with sections on fauna and flora by William L. Pflieger and Robert G. Lipscomb, 267 p., 94 figs., 26 tbls., 1974 (reprinted 1982). **Price \$22.00.** Describes and locates large springs of Missouri; includes rates of flow, and water composition and quality. Provides information on what makes springs work, pollution potential, historical use of springs, and flora and fauna found in and around them.

WR-30. Water Resources of the St. Louis Area, Missouri, by Don E. Miller et al., 113 p., 2 pls., 39 figs., 29 tbls., 1974. **Price \$10.00.** Describes water resources of St. Louis, St. Charles, and Jefferson counties. Summarizes and interprets available hydrogeologic data and relates water needs to supplies. Includes mean and low flows of several streams, chemical and physical characteristics of water, well yields, magnitude and frequency of floods, and other technical information.

WR-31. A Guide for the Geologic and Hydrologic Evaluation of Small Lake Sites in Missouri, by Thomas J. Dean, James H. Barks, and James H. Williams, 56 p., 24 figs., 2 app., 1976. **Price \$8.00.** Outlines geologic and hydrologic factors to consider in designing and constructing small lakes to prevent leakage and assure safety.

WR-33. Water-Quality Characteristics of Six Small Lakes in Missouri, by James H. Barks, 48 p., 25 figs., 5 tbls., 1976. **Price \$8.00.** Discusses geologic and hydrologic conduction and design and construction practices relating to water quality and other environmental factors.

WR-34. Water Resources and Geology of the Springfield Area, Missouri, by Leo F. Emmett et al., 160 p., 4 pls., 35 figs., 22 tbls., 2 app., 1978. **Price \$22.00.** Provides hydrologic information and geologic interpretation on quality and availability of water in a 750-mi² area covering Greene, northern Christian, western Webster, and parts of other counties. Includes data on flooding, rock formations, and much information useful in construction.

WR-35. Hydrology of Carbonate Terrane—Niangua, Osage Fork, and Grandglaze Basins, Missouri, by E.J. Harvey, John Skelton, and Don E. Miller, with section on Engineering Geology of Conns Creek Drainage System, by Thomas J. Dean, 132 p., 4 maps, 1983. **Price \$22.00.** Presents hydrologic data emphasizing distinguishing losing and gaining stream reaches and their relationship to groundwater movement.

WR-36. Appraisal of the Groundwater Resources of Barton, Vernon, and Bates Counties, Missouri, by Michael J. Kleeschulte, Thomas O. Mesko, and James E. Vandike, 80 p., 27 figs., 1 pl., 11 tbls., 1985. **Price \$11.00.** Presents subsurface geologic and groundwater hydrologic data for an area in western Missouri experiencing increasing demands on groundwater resources due to municipal, industrial, and agricultural needs. Groundwater resources of each aquifer system, including hydraulic characteristics and chemical quality, are discussed.

WR-37. Groundwater Level Data for Missouri 1985-1986, by Wayne R. Berkas, Cynthia Endicott, and Pierce W. Cross, 83 p., 38 figs., 1 tbl., 1989. **Price \$15.00.** A technical paper on groundwater levels in Missouri from 1985 through 1986.

WR-38. The Hydrogeology of the Bennett Spring Area, Laclede, Dallas, Webster, and Wright Counties, Missouri by James E. Vandike, 105 p., 44 fig., 26 tbl., 1992. **Price \$13.00.** A study to help better understand the hydrology of Bennet Spring, delineate the area providing its recharge, and study the surface-subsurface relationships in the area.

WR-39. Missouri Wetlands: A Vanishing Resource, by Jane E. Epperson, 62 p., 7 fig., 15 app., 1992. **Price \$15.00.** Explains the types of wetlands found in Missouri, the history of wetland loss, the functions and values of wetlands, the regulatory and nonregulatory programs which affect Missouri wetlands, and more.

WR-40. Movement of Shallow Groundwater in the Perryville Karst Area, Southeastern Missouri, by James E. Vandike, 1985, 58 p., 23 figs., 3 tbls., (Previously Miscellaneous Publication Number 44). **Price \$14.00.**

WR-41. The Hydrologic Analysis of the Ozark Aquifer in the Rolla Area, Missouri, by James E. Vandike, 1993, 84 p., 29 figs., 34 tbls. **Price \$15.00.**

WR-42. Groundwater Level Data for Missouri Water Year 1991-1992, by James E. Vandike, 1993, 96 p., 46 figs., 46 tbls. **Price \$17.00.**

WR-43. Hydrogeologic Investigation of the Fulbright Area, Greene County, Missouri, by James E. Vandike and L. Daniel Sherman, 1994, 114 p., 36 figs., 1 tbl., 1 app. **Price \$15.00.**

WR-44. Missouri Drought Response Plan, by Don E. Miller and Charles R. Hays, 1995, 44 p., 6 illus. **No Charge.**

WR-45. Surface Water Resources of Missouri (Missouri State Water Plan Series - Volume 1), by James E. Vandike, 122 p., 63 figs., 6 tbls., 1996. **Price \$14.00** *Contains a basin-by-basin assessment of Missouri's surface water resources. It discusses the effects of climate, geology and other factors on the hydrologic characteristics of major lakes, streams and rivers. It also assesses surface-water availability and development in the state.*

WR-46. Groundwater Resources of Missouri (Missouri State Water Plan Series - Volume II), by Don E. Miller and James E. Vandike, 210 p., 77 figs., 17 tbls., 1997. **Price \$28.00.** *Presents information on the availability and natural quality of groundwater throughout the state. It focuses on Missouri's seven groundwater provinces and includes their geology, hydrogeology, areal extent, general water quality, and potential for contamination. Aquifer storage estimates are given for each aquifer and county. The report also reviews the different types of water-supply wells in use and how water well construction techniques vary between areas and aquifers.*

WR-47. Missouri Water Quality Assessment (Missouri State Water Plan Series - Volume III), by Cynthia M. Brookshire, 172 p., 53 figs., 57 tbls., 1997. **Price \$24.00.** *Focuses on the current quality of Missouri surface water and groundwater. The volume looks at chemical, bacteriological and radiological water-quality, and natural and man-induced water-quality changes.*

WR-48. Water Use of Missouri (Missouri State Water Plan Series - Volume IV), by Charles DuCharme and Todd Miller, 150 p., 36 figs., 14 tbls., 11 app., 1996. **Price \$24.00.** *Describes how Missouri is presently using its surface-water and groundwater resources. The report covers private and public water supplies, industrial and agricultural water uses, and water use for electrical power production, navigation, recreation, fish and wildlife.*

WR-49. Hydrologic Extremes in Missouri: Flood and Drought (Missouri State Water Plan Series - Vol-

ume V), by John Drew and Sherry Chen, 104 p., 53 figs., 13 tbls., 2 app., 1997. **Price \$18.00.** *Provides basic information about flood and drought specific to Missouri. A historical perspective is given as well as information that can be used in planning for hydrologic extremes. It also describes concepts and defines terminology helpful in understanding flood and drought.*

WR-50. Water Resource Sharing—The Realities of Interstate Rivers (Missouri State Water Plan Series - Volume VI), by Jerry D. Vineyard, 78 p., 44 figs., 4 tbls., 1997. **Price \$22.00.** *Presents Missouri's views concerning interstate rivers. Missouri can be greatly affected by activities and water policy in the upper basin states of the Missouri and Mississippi river basins. Missouri policy can also affect downstream states on the Mississippi, Arkansas and White rivers. Many serious issues affecting these rivers have less to do with their physical characteristics than with political, economic and social trends.*

WR-51. A Summary of Missouri Water Law (Missouri State Water Plan Series -Volume VII), by Charles R. Hays, Richard M. Gaffney and William J. Bryan, 292 p., 23 figs., 6 app., 2000. **Price \$33.00.** *Provides an overview of the laws that affect the protection and use of Missouri's water resources. It supplies reference information about existing doctrines, statutes and case law.*

WR-52. Missouri Water Resources Law Annual Report—1996, 30 p. **No Charge.**

WR-54. Flood Report Analysis, by Richard M. Gaffney, 1996, 44 p. **No Charge.**

WR-55. The Hydrology of Maramec Spring, by James E. Vandike, 1997, 104 p., 33 figs, 8 tbls, 1 app. **Price \$16.00.**

WR-56. Missouri Water Resources Law Annual Report—1997, 36 p. **No Charge.**

WR-58. Missouri Water Resources Law Annual Report—1998, 40 p. **No Charge.**

WR-59. Topics in Water Use: Northeastern Missouri, 1998, 79 p. **Price \$11.00.**

WR-60. Topics in Water Use: Central Missouri, 2002, 97 p., 27 figs., 5 tbls. **Price \$16.00.**

WR-61. Topics in Water Use: Northwestern Missouri, 2003, 75 p, 21 figs., 4 tbls. **Price \$12.75.**

WR-62. Topics in Water Use: Eastern Missouri, 2004, 48 p., 12 figs., 2 tbls. **Price \$10.50.**

WR-63. Topics in Water Use: Southern Missouri, 2003, 90 p., 17 figs., 4 tbls. **Price \$15.25.**

WR-65. Missouri Water Resources Law Annual Report--1999, 52 p. **No Charge.**

WR-66. Missouri Water Resources Law Annual Report--2000, 61 p. **No Charge.**

WR-67. Missouri Water Resources Law Annual Report--2001, 69 p. **No Charge.**

WR-68. The Springs of Greene County, Missouri, by Loring Bullard, Kenneth C. Thomson, and James E. Vandike, 2002, 120 p., 62 figs, 1 app. **Price \$27.00.**

WR-69. Missouri Drought Plan, by Bruce Netzler, et. al., 2002, 71 p. **No Charge.**

WR-71. Missouri Water Resources Law Annual Report -- 2002, 75 p. **Available only on our website.**

WR-72. Major Water Use in Missouri: 1996-2000, by Jeanette Barnett, 2004, 81 p., 114 figs., 10 tbls. **Price \$26.00**

SPECIAL PUBLICATIONS

SP-1. Missouri Minerals — Resources, Production, and Forecasts, by Heyward M. Wharton et al., 314 p., 144 figs., 94 tbls., 1969. **Price \$14.00.** *Describes and analyzes mineral resources on detailed commodity-by-commodity basis as well as by regional planning district.*

SP-2. Missouri Water Atlas, by Missouri Department of Natural Resources, Division of Geology and Land Survey, 97 p., 90 figs., 27 tbls., 1982 (revised 1986). **Price \$26.00.** *Serves as source book of basic information on water in Missouri and presents current knowledge of subject.*

SP-4. Proceedings of the Georad Conference, (Geological Causes of Radionuclide Anomalies), April 21-22, 1987, St. Louis, Missouri. Published by Missouri Department of Natural Resources, Division of Geology and Land Survey, 186 p., 82 figs., 21 tbls., 1988. **Price \$16.00.**

SP-5. Geological Society of America 1989 Field Trip Guidebook compiled by Jerry D. Vineyard and W. Keith Wedge, 190 p., 63 figs., 3 tbls., 1989. **Price \$26.00.** *A collection of field guidebooks for the Geological Society of America meetings in St. Louis, 1989.*

SP-6. The Geologic Story of the St. Louis Riverfront -- A Walking Tour, by Arthur W. Hebrank, 50 p., 41 figs., 1989. **Price \$10.00.** *An entertaining discussion of geologic materials used in buildings and structures on the old St. Louis riverfront.*

SP-7. Proceedings of the Sixteenth Annual Forum on Geology of Industrial Minerals, compiled by James A. Martin, 84 p., 37 figs., 4 tbls., 1990. **Price \$15.00.**

SP-9. International Geological Correlation Programme Project 315, Correlation of Rapakivi Granites and Related Rocks on a Global Scale: Symposium on Rapakivi Granites and Related Rocks, Abstracts Volume, (*Contribution to Precambrian Geology No. 23*) edited by Eva B. Kisvarsanyi, 1993, 46 p., 1 fig. **Price \$13.00.**

SP-10. Field Trip No. 6: Rapakivi Granites and Related Rocks in the St. Francois Mountains, Southeast Missouri, Field Trip Guidebook, (*Guidebook No. 24*), In conjunction with the 27th Annual Meeting of the Geological Society of America, Rolla, Missouri, March 29-April 2, 1993, 37 p., 21 figs., 4 tbls. **Price \$4.60.**

MISCELLANEOUS PUBLICATIONS

- MP-4. Brown Iron Ore Locations of Howell County, Missouri**, 8 p., 1953 (revised 1954). **Price \$4.00.** *Listing includes property owners and sections, townships, and ranges.*
- MP-5. Brown Iron Ore Locations of Oregon County, Missouri**, 7 p. 1953 (revised 1954). **Price \$.70.** *Listing includes property owners and sections, townships, and ranges.*
- MP-6. An Introduction to the Geologic History of Missouri**, by Thomas R. Beveridge, 8 p., 1 fig., 1955 (revised 1978) (mimeo.). **Price \$.80.** *Contains general geologic information for the layman.*
- MP-14. Water Wells in the Glacial Drift of North Missouri**, by W.B. Russell, 6 p., 1957. **Price \$.70.**
- MP-19. Kaolin Deposits Near Glen Allen, Bollinger County, Missouri**, by Anthony C. Tennissen, 19 p., 1 pl., 1960. **Price \$2.00.**
- MP-22. Mineral Conservation in Missouri**, by Thomas R. Beveridge, 2 p., 1963. **Price \$.40.**
- MP-29. The Resources of St. Charles County, Missouri — Land, Water, and Minerals**, by Missouri Geological Survey, printed by St. Charles County, 237 p., 51 figs., 19 tbls., 1 app., glossary, 1975. **Price \$15.00.** *Special geologic assessment of St. Charles County that inventories water, mineral, and land resources and evaluates geologic characteristics. Describes surficial materials, bedrock, topography, hydrology, and engineering geologic data needed for designing and constructing waste disposal facilities, buildings, dams, and other structures.*
- MP-30. Works in Print on Water**, by Missouri Division of Geology and Land Survey, 9 p., 1979 (mimeo). **Price \$1.10.** *Annotated list of books, reports, documents, and maps of Missouri Geological Survey relating to water.*
- MP-32. Rules and Regulations of Missouri Oil and Gas Council**, by Missouri Oil and Gas Council, 19 p., Revised 1993 (mimeo). **No charge.** *Reprinted from Code of State Regulations. Includes guidelines on rules and regulations of Council.*
- MP-33. Inventory of Strippable Tar Sands in Southwestern Missouri**, by Jack S. Wells, 55 p., 14 figs., 2 pls., 1977 (mimeo). **Price \$13.00.** *Estimates heavy oil in Vernon, Barton, Dade, and Cedar counties based on compilation of surface and subsurface data, geologic mapping, and drilling as part of tri-state coordinated effort to determine extent and characteristics of heavy oil deposits.*
- MP-34. Works in Print on Minerals**, by Missouri Division of Geology and Land Survey, 15 p., 1977 (mimeo). **Price \$1.50.** *Annotated list of books, reports, documents, and maps of Missouri Geological Survey relating to minerals.*
- MP-36. Guide to Mineral Resources Along 1-44, Rolla to St. Louis, Missouri**, by Arthur W. Hebrank, 20 p., 1978. **Price \$1.70.**
- MP-37. The Role of Coal in Missouri**, by Missouri Division of Geology and Land Survey, 26 p., 1979. **Price \$6.00.**
- MP-39. The Mississippian and Pennsylvanian (Carboniferous) Systems in the United States — Missouri**, by Thomas L. Thompson, 22 p., 13 figs., 1979. **Price \$2.40.** *Historical summary of Mississippian and Pennsylvanian rocks in Missouri.*
- MP-41. Policy Options for Missouri Coal**, by Governor's Advisory Council on Missouri Coal, Missouri Department of Natural Resources, 31 p., 1981. **Price \$4.00.** *Report concentrates on problems affecting Missouri coal production and utilization and gives recommendations of members of Governor's Advisory Council on Missouri Coal.*
- MP-42. Rules and Regulations of the Missouri Dam and Reservoir Safety Council**, (Contact the Dam and Reservoir Safety Program for Dam Safety Publication 3) by Missouri Department of Natural Resources, Division of Geology and Land Survey, 50 p., 1985. **No charge.** *Reprinted from Code of State Regulations. Performance standards for dams built before enactment of Dam Safety Law, and design criteria for dams built thereafter.*
- MP-43. Mineral Producers Directory**, by Missouri Department of Natural Resources, Division of Geology and Land Survey. **Price \$2.40.** *Lists industrial and metallic mineral producers operating in Missouri. Included are names and addresses of producing companies, commodities produced, and company status and contacts. Available sorted by company or commodity.*
- MP-45. Maintenance, Inspection, and Operation of Dams in Missouri**, (Dam Safety Publication 4) by Missouri Department of Natural Resources, Division of Geology and Land Survey, 55 p., 45 fig., 1991. **No charge.** *Guidelines to assist dam owners in regular maintenance, operation, and inspection.*
- MP-50. Missouri Well Construction Rules; Private Water Wells, Heat Pump Systems, Pump Installations, and Monitoring Wells, Authorizing Statutes—256.600 to 256.640 RSMo.**, 96 p., 11 figs., 1 tbl., 1993. **Price \$10.00.**

EDUCATIONAL SERIES

ED-1. Missouri's Ice Age Animals, by Maurice G. Mehl, 115 p., 39 figs., 1962. **Price \$10.00.** *Describes in laymen's terms characteristics and distribution of Pleistocene vertebrate fauna.*

ED-4. Geologic Wonders and Curiosities of Missouri, by Thomas R. Beveridge, Second Edition, revised by Jerry D. Vineyard, 392 p., 163 figs., app., 1991. **Price \$34.00.** *Locates and describes over 400 interesting geologic features including mountains, hills, knobs, mounds, shut-ins, waterfalls, rapids, bluffs, and others.*

ED-5. Water in Missouri, by Barbara Harris, 28 p., 19 figs., 1979. **Price \$3.00.** *Describes availability and sources*

of groundwater and surface water. Discusses use, problems, and supply development.

ED-6. Diaspore — A Depleted Non-Renewable Mineral Resource of Missouri, by W D. Keller, 36 p., 32 figs., 1979. **Price \$4.00.** *Outlines discovery and depletion of Missouri diaspore, a non-renewable mineral resource and superior refractory material.*

ED-7. Missouri Landscapes: A Tour Through Time, by Jon L. Hawker, 326 p., 201 illus., 1992. **Price \$25.00.** *A journey through time in Missouri - this book traces both geological changes and biological development from as far in the past as the imagination and geological science can explore to the present time and beyond.*

TRADING CARDS

The **1998 DGLS Trading Card Series** contain 40 cards covering 9 different general interest topics. *Learn about: Caves, Dams, Ice Age Animals, Rivers, Springs, Land Surveying, Rocks, Minerals, Wells, and Past State Geologists. Suitable for children and adults of all ages. You can even play games with these cards! Price \$6.00.*

2000 DGLS Trading Card Series contains 60 cards covering 13 different general interest topics. *Learn more about: Caves, Dams, Fossils, Geology, Ice Age Animals, Rivers, Springs, Land Surveying, Publications, Rocks, Minerals, Geologic Wonders, Wells, and Past State Geologists. This set has four new categories. Cards come with game directions. Price \$8.00.*

Third Series Missouri Resource Trading Cards contains 60 cards covering 12 different general interest topics. *Learn even more about caves, dams, fossils, geology, rivers, springs, land surveying, publications, geologic wonders and rocks and minerals. Game instructions included. Price \$8.00.*

Fourth Series Missouri Resource Trading Cards "The Missouri River - Lewis and Clark Expedition" contains 80 cards covering the Missouri River and Lewis and Clark's expedition on the river in Missouri as it relates to geology, water resources, dams and land surveying. **Price \$8.00.**

GUIDEBOOKS

The Missouri Department of Natural Resources, Division of Geology and Land Survey has published several guidebooks since its beginning. This list serves as a cross reference. See each respective section (i.e. Report of Investigations, etc.) for further descriptions.

GB-9. Guidebook, Field Trip, 1965 Annual Meeting, Geological Society of America, Geology of the Kansas City Group at Kansas City. *SEE Report of Investigations 31.*

GB-13. Guidebook to the Geology and Ore Deposits of Selected Mines in the Viburnum Trend, Missouri. *SEE Report of Investigations 58.*

GB-16. Guidebook to the Geology and Ore Deposits of the St. Francois Mountains, Missouri. *SEE RI 67, CP 9.*

GB-17. Field Trip Guidebook to the St. Francois Mountains and the Historic Bonne Terre Mine. *SEE OFR 82-16-MR.*

GB-20. The Geologic Story of the St. Louis Riverfront— A Walking Tour. *SEE SP 6.*

GB-23. Guidebook to the Geology Along Interstate 44 (I-44) in Missouri. *SEE RI 71.*

GB-24. Field Trip No. 6: Rapakivi Granites and Related Rocks in the St. Francois Mountains, Southeast Missouri. *SEE SP 10.*

GB-25. Association of Missouri Geologists' 50th Annual Meeting Field Trip Guidebook. *SEE RI 75.*

CONTRIBUTIONS TO PRECAMBRIAN GEOLOGY

Reports and maps are published by the Missouri Department of Natural Resources, Division of Geology and Land Survey, in a special series "Contributions to Precambrian Geology." This list serves as a cross reference. See each respective section (Report of Investigations, etc.) for further descriptions.

- CP-4. Petrochemistry of a Precambrian Igneous Province, St. Francois Mountains, Missouri.** *SEE RI 51.*
- CP-7. Geologic Map of the Precambrian of Missouri,** by Eva B. Kisvarsanyi, 1:1,000,000, 1979. **Price \$6.00-folded; \$7.50-rolled.**
- CP-8. Geology of the Precambrian St. Francois Terrane, Southeastern Missouri.** *SEE RI 64.*
- CP-9. Guidebook to the Geology and Ore Deposits of the St. Francois Mountains, Missouri.** *SEE RI 67.*
- CP-10. Geologic Map of Exposed Precambrian Rocks in the Iron Mountain Lake Quadrangle, Missouri.** *SEE OFM 83-160-MR.*
- CP-11. Geologic Map of Exposed Precambrian Rocks in the Wachita Mountain (Fredericktown NW¼) Quadrangle, Missouri.** *SEE OFM 83-161-MR.*
- CP-12. Geologic Map of Exposed Precambrian Rocks in the Lake Killarney Quadrangle, Missouri.** *SEE OFM 83-162-MR.*
- CP-13. Geologic Map of Exposed Precambrian Rocks in the Des Arc Quadrangle, Southeast Missouri.** *SEE OFM 84-198-MR.*
- CP-14 The Magnetic Anomaly Map of Missouri With an Interpretation of Precambrian Structure, (Part A and B),** 1984. **Price \$9.00.** Part A-The Magnetic Anomaly Map of Missouri, by Isidore Zietz Kevin R. Bond, and Frederic E. Riggle, 1:1,000,000. Part B-The Precambrian Tectonic Framework of Missouri as Interpreted from the Magnetic Anomaly Map, by Eva B. Kisvarsanyi, 19 p.
- CP-15. Structure Contour Map of the Precambrian Surface in Missouri.** *SEE OFM 84-207-GI.*
- CP-16. Inventory, Logging, and Sampling of Basement Cores.** *SEE OFR 87-58-GI.*
- CP-17. Spectrographic Analyses of Drill Core from Precambrian Rocks in the Buried Precambrian Basement Terranes of Missouri.** *SEE OFR 88-68-GI.*
- CP-18. Boss-Bixby, A High Temperature Iron-Copper Deposit in the Precambrian of the Midcontinent United States.** *SEE OFR 88-72-GI.*
- CP-19. Appraisal of the Precambrian Basement Complex in the Harrison 1 x 2 Degree Quadrangle, Missouri and Arkansas.** *SEE OFR 89-74-GI.*
- CP-20a. Mine Geology Map of the Pea Ridge Fe-REE Deposit, 2440 Sublevel, Map 1.** *SEE OFM 89-251a-GI.*
- CP-20b. Mine Geology Map of the Pea Ridge Fe-REE Deposit 2370 Sublevel, Map 1.** *SEE OFM 89-251b-GI.*
- CP-20c. Mine Geology Map of the Pea Ridge Fe-REE Deposit, 2370 Sublevel, Map 2.** *SEE OFM 89-251c-GI.*
- CP-21. Gold, Rare Earth Element, and Other Potential By-Products of the Pea Ridge Iron Ore Mine, Washington County, Missouri.** *SEE OFR 89-78-MR.*
- CP-22a. Map of Drill Holes that Bottom in Precambrian Basement in Missouri.** *SEE OFM 90-257-GI.*
- CP-22b. List of Basement Drillholes in Missouri,** *SEE OFR-93-92-GS.*
- CP-23. International Geological Correlation Programme Project 315, Correlation of Rapakivi Granites and Related Rocks on a Global Scale: Symposium on Rapakivi Granites and Related Rocks, Abstracts Volume.** *SEE SP 9.*

BIENNIAL REPORTS

Biennial Reports, submitted by the State Geologist to the State Legislature every other year, described work in progress at the Survey, what was accomplished, and goals for the future. Some earlier Biennial Reports also contained articles similar to those now published in the Report of Investigations series. The last Biennial Report was prepared in 1974. On July 1, 1974, the Missouri Geological Survey became the Division of Geology and Land Survey in the newly created Missouri Department of Natural Resources.

Biennial Report of the State Geologist to the 41st General Assembly, by Leo Gallaher, 55 p., 1901. **Price \$4.00.**

Biennial Report of the State Geologist to the 43rd General Assembly, by Earnest Robertson Buckley, 56 p., 2 pls., 1905. **Price \$4.00**

Biennial Report of the State Geologist to the 44th General Assembly, by Ernest Robertson Buckley, 57 p., 1907. **Price \$4.00.**

Biennial Report of the State Geologist to the 45th General Assembly, by H.A. Buehler, 59 p., 1909. **Price \$4.00.**

Biennial Report of the State Geologist to the 46th General Assembly, by H.A. Buehler, 68 p., 6 pls., 1911. **Price \$4.00.**

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MAPS

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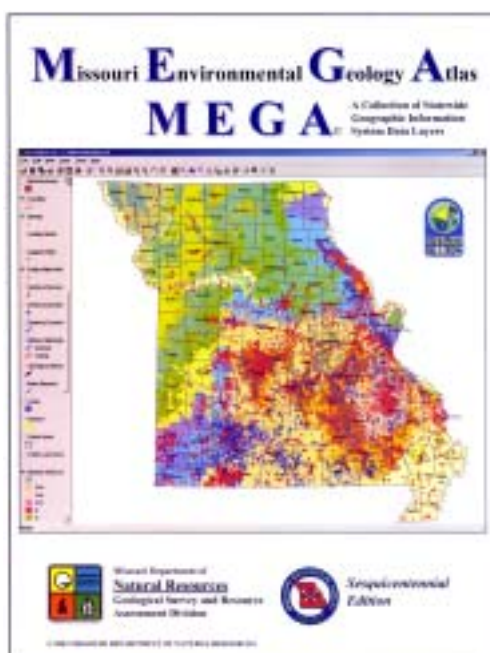
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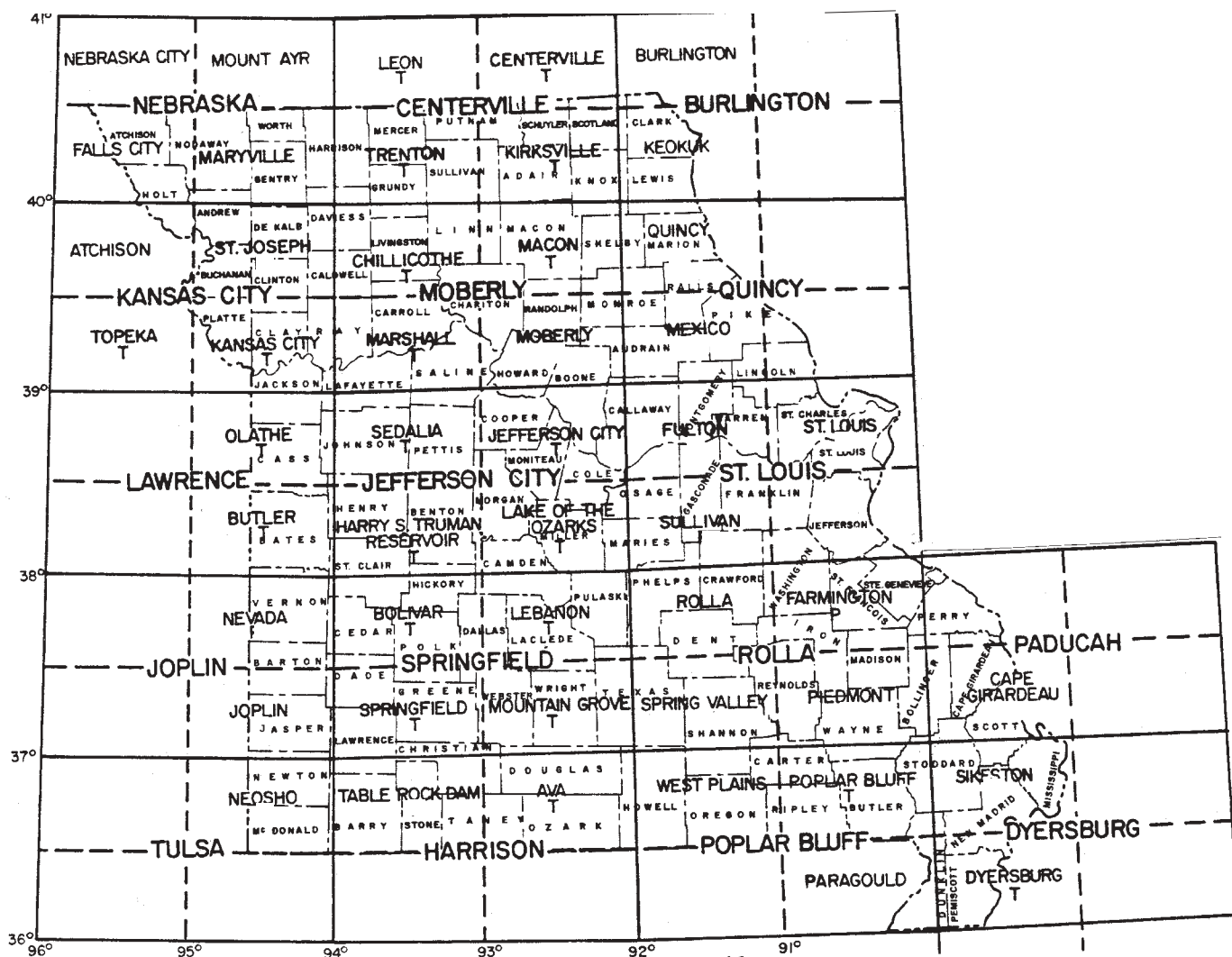
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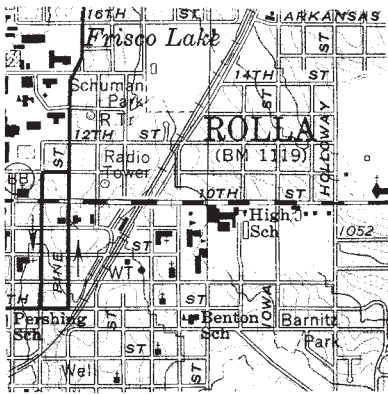
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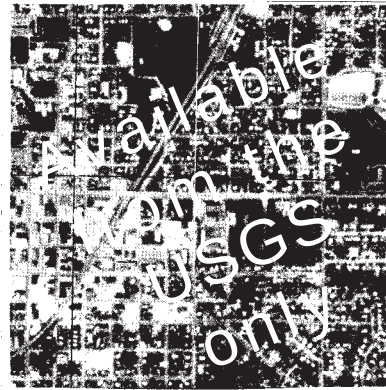


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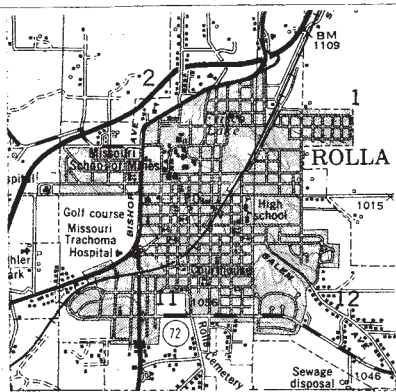


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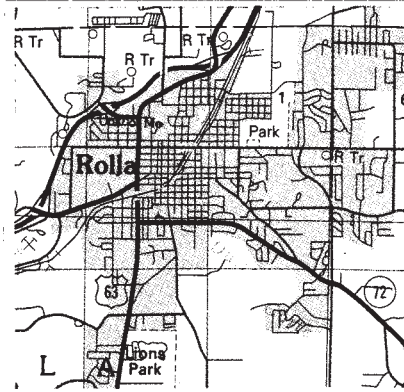


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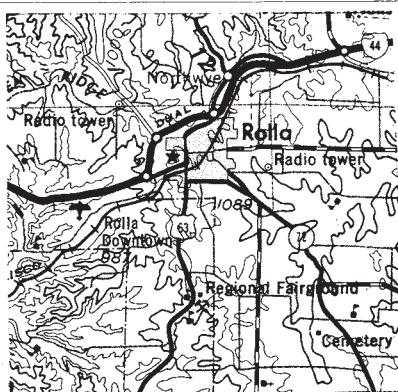


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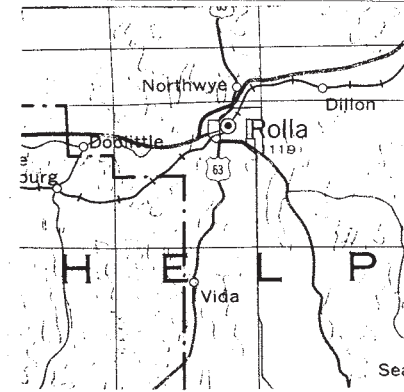


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(A one-page table accompanies OFM-83-145-GI and OFM-83-146-GI) *Lithofacies Characteristics for the Late Cambrian and Basal Ordovician of South-Central Missouri, Springfield 1° x 2° Quadrangle*, by James R. Palmer.

OFM-83-146-GI. Cambrian Lithofacies Cross Section from Western Christian County to Eastern Howell County, Missouri, by James R. Palmer. **Price \$7.50-folded; \$9.00-rolled.**

OFM-83-147-MR. Contour Map for Aeromagnetic Survey, Rolla 1° x 2° Quadrangle — West Crawford County, Missouri, 1:62,500. **Price \$5.00-folded; \$6.50-rolled.** *Compiled from U.S. Geological Survey Open-file Report 79-966.*

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OFM-83-155-GI. Sand Percentage Map of the Roubidoux Formation, South-Central Missouri, by Michael W. Harbaugh, 1:125,000. Price \$7.50-folded; \$9.00-rolled.

OFM-83-156a-GI. Sand Isolith of the Roubidoux Formation, South-Central Missouri, by Michael W. Harbaugh, 1:125,000. Price \$7.50-folded; \$9.00-rolled.

OFM-83-156b-GI. Tripartite Sand Distribution Map Combined with the Sand Isolith of the Roubidoux Formation, South-Central Missouri, by Michael W. Harbaugh, 1:125,000. Price \$7.50-folded; \$9.00-rolled.

OFM-83-157a-GI. Isopach of the Roubidoux Formation, South-Central Missouri, by Michael W. Harbaugh, 1:125,000. Price \$7.50-folded; \$9.00-rolled..

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OFM-83-158-GI. Fence Diagram of the Roubidoux Formation, South-Central Missouri, by Michael W. Harbaugh, 1:125,000. Price \$7.50-folded; \$9.00-rolled.

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OFM-84-199-GI. Isopach Map of Basal Cambrian Clastics (Lamotte-Reagan Sandstone), Springfield 1° x

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- OFM-84-207-GI. Structure Contour Map of the Precambrian Surface in Missouri**, (*Contribution to Precambrian Geology No. 15*), by Eva B. Kisvarsanyi, 1:500,000. Price \$7.50-folded; \$9.00-rolled.
- OFM-84-208-MR. Total Intensity Aeromagnetic Contours, Springfield 1° x 2° Quadrangle — Parts of Lawrence, Greene, and Christian Counties, Missouri**, 1:62,500. Price \$7.50-folded; \$9.00-rolled. *Compiled from U.S. Geological Survey Open-file Report 84-648.*
- OFM-84-209-MR. Total Intensity Aeromagnetic Contours, Springfield 1° x 2° Quadrangle — Parts of Greene, Christian, and Webster Counties, Missouri**, 1:62,500. Price \$7.50-folded; \$9.00-rolled. *Compiled from U.S. Geological Survey Open-file Report 84-648.*
- OFM-84-210-MR. Total Intensity Aeromagnetic Contours, Springfield 1° x 2° Quadrangle — Parts of Webster, Wright, Christian and Douglas Counties, Missouri**, 1:62,500. Price \$7.50-folded; \$9.00-rolled. *Compiled from U.S. Geological Survey Open-file Report 84-648.*
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OFM-03-462-GS. Surficial Material Geologic Map of the Rocky Mount 7.5' Quadrangle, Miller and Morgan counties, Missouri by Larry Pierce, 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

OFM-03-463-GS. Bedrock Geologic Map of the Swiss 7.5' Quadrangle, Gasconade County, Missouri by Cheryl M. Seeger, 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

OFM-03-464-GS. Surficial Material Geologic Map of the Swiss 7.5' Quadrangle, Gasconade County, Missouri by Cheryl M. Seeger, 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

OFM-03-465-GS. Bedrock Geologic Map of the Treloar 7.5' Quadrangle, Franklin and Warren counties, Missouri by James C. Brown, Jr., 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

OFM-03-466-GS. Surficial Material Geologic Map of the Treloar 7.5' Quadrangle, Franklin and Warren counties, Missouri by James C. Brown, Jr., 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

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OFM-03-468-GS. Surficial Material Geologic Map of the Washington West 7.5' Quadrangle, Franklin and Warren counties, Missouri by Harold W. Baker, Jr., 2003, scale 1:24,000. **Price \$12.50-folded; \$14.00-rolled.**

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GEOLOGIC MAPS

Quad/Area	Product Number	Quad/Area	Product Number
<i>Bold/italic names are in preparation</i>			
Acorn Ridge	OFM-81-49-GI	Cedar Gap	OFM-82-74-GI
Advance	OFM-81-52-GI	Cedar Hill	OFM-91-267-GI
Aldrich	OFM-82-105-GI	Cedar Hill	OFM-02-409-GS
Altenburg	OFM-84-221-GI	Cedar Vista	OFM-82-104-GI
Arnica	OFM-84-201C-GI	Cedarville	OFM-82-106-GI
Ash Grove	OFM-82-76-GI	Centralia	OFM-80-01-GI
Aurora	OFM-83-163-GI	Chadwick	OFM-82-113-GI
Bado	OFM-84-188-GI	Chaffee	OFM-81-51-GI
Bagnell	OFM-84-176-GI	Charity	OFM-82-103-GI
Bagnell	OFM-02-401-GS	Chesapeake	OFM-82-78-GI
Barnumton	OFM-84-173-GI	Chesapeake	OFM-83-164-GI
Barnumton	OFM-02-403-GS	Clifton Hill	OFM-81-55-GI
Bassville	OFM-81-47-GI	Clines Island	OFM-81-52-GI
Bassville	GQ-4	Cliquot	OFM-82-104-GI
Bates County	MM-Bates County	College Mound	OFM-81-55-GI
Bear Creek	OFM-82-105-GI	Columbia	OFM-80-01-GI
Belew Creek	OFM-90-258-GI	Conns Creek	OFM-84-193A-GI
Belew Creek	OFM-02-425-GS	Crisp	OFM-82-106-GI
Belgique	OFM-86-234-GI	Crocker	OFM-84-193B-GI
Bell City	OFM-81-52-GI	Crosstown	OFM-84-222-GI
Bevier South	OFM-81-55-GI	Cuba	OFM-92-275-GS
Big Piney	OFM-84-189-GI	Cyclone Hollow	OFM-02-411-GS
Billings	OFM-82-78-GI	Dadeville	OFM-82-76-GI
Bloodland	OFM-84-189-GI	Danby	OFM-01-380-GS
Bloomfield	OFM-81-52-GI	Day	OFM-82-113-GI
Bloomsdale	OFM-01-378-GS	Day	OFM-98-325-GS
Bolivar	OFM-82-104-GI	Decaturville	OFM-84-194A-GI
Bollinger Creek	OFM-84-171-GI	Defiance	OFM-89-255-GI
Bollinger Creek	OFM-02-405-GS	Des Arc NE	OFM-84-198-GI
Bona	OFM-82-105-GI	DeSoto	OFM-01-382-GS
Boyers Mill	OFM-03-438-GS	Devils Elbow	OFM-84-192D-GI
Branch	OFM-84-200B-GI	Dexter	OFM-81-52-GI
Branson	OFM-82-115-GI	Dissen	OFM-03-440-GS
Branson	OFM-97-320-GS	Dixon	OFM-84-192B-GI
Briar	OFM-99-332-GS	Doniphan North	OFM-99-334-GS
Brookline	OFM-81-46-GI	Doniphan South	OFM-99-336-GS
Brownfield	OFM-84-190-GI	Drew	OFM-84-190-GI
Browns	OFM-80-01-GI	Drynob	OFM-84-190-GI
Brush Creek	OFM-84-191C-GI	Dudley	OFM-81-49-GI
Buffalo	OFM-82-103-GI	Duncan	OFM-82-75-GI
Buffalo NW	OFM-82-103-GI	Ebenezer	OFM-81-45-GI
Bynumville	OFM-81-55-GI	Ebo	OFM-02-413-GS
Cabool NE	OFM-84-186-GI	Eldridge East	OFM-84-194C-GI
Cabool NW	OFM-84-186-GI	Eldridge West	OFM-84-195D-GI
Cabool SE	OFM-84-186-GI	Elkland	OFM-81-47-GI
Cabool SW	OFM-84-186-GI	Elkton	OFM-84-196C-GI
Camdenton	OFM-84-177-GI	Ellsinore	OFM-99-338-GS
Camdenton	OFM-02-407-GS	Eminence	I-2653
Cape Fair	OFM-96-314-GS	Essex	OFM-81-52-GI
Cape Girardeau	OFM-82-73-GI	Everton	OFM-82-76-GI
Cape Girardeau NE	OFM-89-253-GI	Fair Grove	OFM-81-47-GI
Caplinger Mills	OFM-84-202D-GI	Fair Play	OFM-82-105-GI
Cassville	MM-Cassville	Fairdealing	OFM-00-355-GS

Quad/Area	Product Number	Quad/Area	Product Number
<i>Bold/italic names are in preparation</i>			
Festus	OFM-92-296-GS	Huntsville	OFM-81-55-GI
Festus	OFM-02-426-GS	Hurley	OFM-82-114-GI
Filley	OFM-84-202C-GI	Hurley	OFM-98-327-GS
Fisk	OFM-81-49-GI	Independence	GQ-3
Flatwoods	OFM-00-357-GS	Iron Mountain Lake	OFM-83-160-MR
Fletcher	OFM-01-384	Jacksonville	OFM-81-55-GI
Fordland	OFM-82-81-GI	Jefferson City	OFM-82-70-GI
Forsyth	OFM-82-115-GI	Jenkins	OFM-98-328-GS
Forsyth	OFM-97-321-GS	Joplin East	OFM-82-71-GI
Franklin	OFM-03-437-GS	Joplin West	OFM-82-72-GI
Fredericksburg	OFM-03-442-GS	Kaskaskia	OFM-86-232-GI
Friedheim	MF-1905	Kings Point	OFM-82-80-GI
Galena	OFM-82-114-GI	Knobby	OFM-03-450-GS
Galloway	OFM-81-48-GI	Laclede County	OFM-92-281-GS
Galloway	GQ-5	Lagonda	OFM-81-55-GI
Garber	OFM-82-112-GI	Lake Killarney	OFM-83-162-MR
Garber	OFM-96-316-GS	Lake Ozark	OFM-84-175-GI
Garrison	OFM-82-113-GI	Lake Ozark	OFM-02-419-GS
Gasconade	OFM-03-444-GS	Lampe	OFM-82-112-GI
Grandin	OFM-99-340-GS	Lampe	OFM-95-306-GS
Grandin SW	OFM-99-342-GS	Lead Mine	OFM-84-195C-GI
Gravois Mills	OFM-03-446-GS	Lebanon	OFM-84-191A-GI
Gray Summit	OFM-02-415-GS	Lees Summit	GQ-1
Green Bay Terrace	OFM-84-174-GI	Lithium	OFM-86-233-GI
Green Bay Terrace	OFM-02-417-GS	Lockwood	OFM-82-80-GI
Grovespring	OFM-82-75-GI	Lonedell	OFM-02-429-GS
Hahatonka	OFM-84-195B-GI	Long Lane	OFM-82-102-GI
Half Way	OFM-82-103-GI	Macks Creek	OFM-84-195A-GI
Halifax	OFM-01-386-GS	Macon	OFM-81-55-GI
Hallsville	OFM-80-01-GI	Manes	OFM-84-187-GI
Halltown	OFM-82-78-GI	Mansfield	OFM-82-74-GI
Halltown NE	OFM-82-78-GI	Mansfield NE	OFM-82-74-GI
Hancock	OFM-84-192A-GI	Mansfield NW	OFM-82-74-GI
Harrison 1:250K	I-2548	Marthasville	OFM-03-452-GS
Harrisonville	OFM-99-352-GS	Maxville	GQ-2
Hartville	OFM-82-75-GI	Maxville	OFM-02-430-GS
Harviell	OFM-00-359-GS	McClure	OFM-82-73-GI
Hendrickson	OFM-00-361-GS	McDowell	OFM-94-299-GS
Herculaneum	OFM-91-265-GI	Miller	OFM-82-79-GI
Herculaneum	OFM-02-427-GS	Millersburg	OFM-80-01-GI
Hermann	OFM-03-448-GS	Mincy	OFM-82-115-GI
Hermitage	OFM-84-196B-GI	Mincy	OFM-97-323-GS
Highlandville	OFM-82-114-GI	Moberly	OFM-81-55-GI
Highlandville	OFM-98-326-GS	Montreal	OFM-84-194B-GI
Hilda	OFM-82-116-GI	Morley	OFM-81-51-GI
Hilldale	OFM-80-01-GI	Morrison	OFM-03-454-GS
Hogan Hollow	OFM-99-344-GS	Morrisville	OFM-81-45-GI
Hollister	OFM-82-115-GI	Moselle	OFM-02-431-GS
Hollister	OFM-92-269-GI	Mount Vernon	OFM-82-79-GI
Hollister	OFM-97-322-GS	Mount Vernon	OFM-83-165-GI
Hollister	OFM-99-331-GS	Mountain Grove North	OFM-84-185-GI
House Springs	OFM-91-263-GI	Mountain Grove South	OFM-84-185-GI
House Springs	OFM-02-428-GS	Neelys Landing	OFM-89-254-GI
Humansville	OFM-84-201D-GI	New Haven	OFM-03-456-GS
Hunter	OFM-99-346-GS	Niangua	OFM-82-77-GI

Quad/Area	Product Number	Quad/Area	Product Number
<i>Bold/italic names are in preparation</i>			
Nixa	OFM-81-46-GI	Sentinel	OFM-84-196D-GI
Norwood	OFM-84-185-GI	Shell Knob	OFM-97-324-GS
Oak Grove Heights	OFM-81-48-GI	Slabtown Spring	OFM-84-189-GI
Oak Ridge	OFM-91-260-GI	South Greenfield	OFM-82-80-GI
Oakland	OFM-84-191B-GI	Spokane	OFM-82-114-GI
Oakville	OFM-91-266-GI	Spokane	OFM-98-330-GS
Oakville	OFM-02-432-GS	Springfield	OFM-81-46-GI
Old Mines	OFM-01-388-GS	Springfield 1:250K	I-2029
Oran	OFM-81-51-GI	Springfield 30' X 60'	OFM-01-398-GS
Owens	OFM-84-185-GI	St. Clair	OFM-02-434-GS
Oxly	OFM-00-363-GS	St. Louis 1:100K	I-2533
Ozark	OFM-81-48-GI	St. Louis City and County	OFM-91-259-GI
Ozark Springs	OFM-84-193D-GI	Stockton	OFM-82-106-GI
Pacific	OFM-91-264-GI	Stotts City	OFM-82-79-GI
Pacific	OFM-02-433-GS	Stoutland	OFM-84-194D-GI
Peculiar	OFM-00-377-GS	Strafford	OFM-81-47-GI
Perryville East	OFM-86-236-GI	Stringtown	OFM-00-371-GS
Perryville West	OFM-91-262-GI	Sturgeon	OFM-80-01-GI
Pershing	OFM-03-458-GS	Sturgeon SW	OFM-80-01-GI
Platte City	GQ-6	Sunrise Beach	OFM-84-172-GI
Pleasant Hope	OFM-81-45-GI	Sunrise Beach	OFM-02-421-GS
Polk	OFM-82-104-GI	Swiss	OFM-03-462-GS
Poplar Bluff	OFM-00-365-GS	Table Rock Dam	OFM-82-112-GI
Poynor	OFM-99-348-GS	Table Rock Dam	OFM-95-304-GS
Prairie Hill	OFM-81-55-GI	Table Rock Lake - 1:100K	OFM-99-350-GS
Preston	OFM-84-200A-GI	Thebes	GQ-1779
Protem	OFM-82-116-GI	Tiff	OFM-01-394-GS
Protem NE	OFM-82-116-GI	Tiffin	OFM-84-202A-GI
Protem SW	OFM-82-116-GI	Toronto	OFM-84-178-GI
Purdy	OFM-94-297-GS	Toronto	OFM-02-423-GS
Puxico	OFM-81-49-GI	Treloar	OFM-03-464-GS
Puxico	OFM-00-367-GS	Tunas	OFM-84-200D-GI
Rader	OFM-82-75-GI	Urbana	OFM-84-200C-GI
Reeds Spring	OFM-82-112-GI	Valley Ridge	OFM-81-50-GI
Reeds Spring	OFM-96-318-GS	Valmeyer	OFM-91-265-GI
Republic	OFM-81-46-GI	Valmeyer	OFM-02-435-GS
Rescue	OFM-82-79-GI	Verona	OFM-83-166-GI
Richland	OFM-84-193C-GI	Viola (MO)	OFM-95-308-GS
Richwoods	OFM-01-390-GS	Vineland	OFM-01-396-GS
Roby	OFM-84-189-GI	Vista	OFM-84-201A-GI
Rockwood	OFM-85-223-GI	Wachita Mountain	OFM-83-161-MR
Rocky Mount	OFM-03-460-GS	Wagoner	OFM-82-106-GI
Rogersville	OFM-81-48-GI	Walnut Grove	OFM-82-76-GI
Rolla	OFM-99-351-GS	Wappapello	OFM-00-373-GS
Rolla 1:250K	I-1161	Ware	OFM-91-261-GI
Rolla 1:250K	I-1998	Washington West	OFM-466-GS
Rombauer	OFM-00-369-GS	Waynesville	OFM-84-192C-GI
Roscoe	OFM-84-202B-GI	Weaubleau	OFM-84-201B-GI
Russ	OFM-84-191D-GI	Weldon Spring	OFM-89-252-GI
Salisbury	OFM-81-55-GI	Wheatland	OFM-84-196A-GI
Scott City	OFM-81-51-GI	Wien	OFM-81-55-GI
Sedgewickville	MF-1674	Willard	OFM-81-45-GI
Selma	OFM-01-392-GS	Williamsville	OFM-00-375-GS
Selmore	OFM-82-113-GI	Winnipeg	OFM-84-190-GI
Selmore	OFM-98-329-GS		

COAL

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